

2001-2907

ENVIRONMENTAL COMPLIANCE SERVICES, INC.

May 10, 2001 Job #40311 Document: summary letter

Mr. James Roberts 700 Nathan Hale Drive Naples, FL 34108

Re:

Additional Environmental Investigations

Friendly's Restaurant 1089 Putney Road Brattleboro, Vermont

Dear Mr. Roberts:

Environmental Compliance Services, Inc. (ECS) is pleased to provide you with the following information regarding the above-referenced property. A site locus map is included as Figure 1. The purpose of this correspondence is to summarize additional subsurface investigations completed at the subject property during March 2001.

Under the approved work scope, the following tasks were completed:

- Advancement of ten soil borings
- Completion of three groundwater monitoring wells
- Collection of three soil samples for laboratory analysis
- Collection of four groundwater samples for laboratory analysis
- Completion of this summary letter

1.00 - Soil Boring Advancement, Monitoring Well Installation and Field Screening Results

Ten soil borings were advanced with three of the borings completed as groundwater monitoring wells (MW-5, MW-6 and MW-7) by ECS on March 14, 2001. Soil borings SB-1, -2, -3 and -4 were advanced 10 feet north, east, south and west of an existing monitoring well MW-2, respectively. Soil boring/monitoring well SB-5/MW-5 was located approximately 20 feet east of MW-2. Soil boring SB-6 was located approximately 20 feet north of SB-5/MW-5. Soil boring SB-8 was located approximately 30 feet east of MW-2. Soil boring/monitoring well SB-9/MW-7 was located approximately 40 feet east of MW-2.

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Soil boring SB-10 was located approximately 24 feet south of soil boring SB-8. These locations (SB-1 through SB-10) were chosen based upon the presence of petroleum contaminated soil during drilling in the area of MW-2 (Figure 2, Site Sketch).

The soil borings were advanced by direct-push drilling methods using an EarthprobeTM and all drilling activities were supervised by ECS personnel. Drilling was performed according to the ECS Standard Operating Procedures (ECS/SOPs, #1.00, 2.00, and #3.00) outlined in Attachment I. Soil samples were collected in four-foot intervals to the 12-foot depth interval at the SB-1, -2, -3, -4, -6, -8, and -10. Soil borings SB-5/MW-5, SB-7/MW-6, and SB-9/MW-7 were advance to 15 feet below ground surface (bgs). Each sample was visually classified and logged by the field technician. Soil boring logs are included in Attachment II.

Soil samples collected during the advancement of soil borings were field screened for Volatile Organic Compound (VOC) vapors with a Photovac Model 2020 Photoionization Detector (PID) calibrated to a 100 parts per million (ppm) span gas and referenced to benzene in accordance with ECS/SOP #5.00 (Attachment I). VOC vapor concentrations detected in the soil samples collected at the subject property ranged from 0.0 parts per million by volume (ppmv) to 9.7 ppmv detected at SB-5/MW-5 at the 6-8 feet sample depth. No VOC vapor concentrations were detected below 8 feet bgs at any soil boring location.

Based on field observations and the highest VOC levels detected by PID, soil samples were collected at SB-5/MW-5, SB-8, and SB-7/MW-6 for analysis of Total Petroleum Hydrocarbons (TPH) by EPA Method 8100M. Each sample was placed on ice immediately upon collection and stored at 4°C until delivery was made to Spectrum Analytical of Agawam, Massachusetts.

2.00 - Groundwater Gauging and Sampling

On March 28, 2001, ECS personnel gauged monitoring wells MW-2, -5, -6 and -7 for depth to groundwater. All depth of groundwater measurements were taken with a Slope Indicator Co. electronic water level indicator accurate to 0.01 foot. Depth to groundwater measurements ranged from 8.12 feet bgs at MW-2 to 10.27 feet bgs at MW-6.

Groundwater samples were collected after three bore well volumes were removed from each monitoring well. Samples were collected using clear plastic disposable bailers. Groundwater samples were submitted for laboratory analysis of VOCs by EPA Method 8021B and TPH by EPA Method 8100M. Each sample was placed on ice immediately upon collection and stored at 4°C until delivery was made to Spectrum Analytical of Agawam, Massachusetts. A copy of the groundwater sampling log is included as Attachment III.

3.00 - Laboratory Results

Laboratory data indicated the soil sample collected from the SB-5 boring at 6-8 feet bgs contained 11,000 milligrams per kilogram (mg/Kg) of TPH. The TPH constituents were characterized as unidentified with the closest primary petroleum fingerprint as other oil. The soil sample collected from

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the SB-7 boring at 6-8 feet bgs contained 7,600 mg/Kg of TPH. The TPH constituents were characterized as unidentified with the closest primary petroleum fingerprint as #6 fuel oil. Soil collected from SB-8 at 6-8 feet bgs contained 300 mg/Kg of TPH, identified as other oil. Concentrations of TPH categorized as unidentified is a result of factors such as microbial degradation and weathering which have broken down the petroleum over time. The Vermont Department of Environmental Conservation (VT DEC) guideline for TPH concentrations in soil at commercial properties is 1,000 mg/Kg.

Laboratory data indicated the groundwater samples collected from MW-2 (120 micrograms per liter (μg/L)), -5 (47 μg/L), -6 (61 μg/L) and -7 (170 μg/L) contained concentrations of Naphthalene which exceeded the VT DEC Primary Groundwater Quality Standard (PGQS) of 20 μg/L. Concentrations of TPH detected in groundwater collected from MW-2 (1.8 milligram per liter (mg/L)), -5 (4.4 mg/L) and -6 (4.1 mg/L) exceeded VT DEC TPH guideline of 1 mg/L. No other parameters tested exceeded VT DEC PGQS.

Groundwater data is represented in Table 1. Laboratory data sheets and chain of custody statements are included in Attachment IV.

4.00 - Conclusions

Based upon information collected during the completed tasks, ECS concludes the following:

- VOC vapor concentrations ranged from 0.0 ppmv to 9.7 ppmv during soil boring advancement. No VOC vapors were detected in soils collected below 8 feet bgs at any soil boring location. Depth to groundwater ranged from 8.12 feet bgs to 10.27 feet bgs;
- TPH concentrations detected in soil collected from SB-5, -7 and -8 exceeded VTDEC guidelines for TPH in soil;
- concentrations of Naphthalene detected in groundwater collected from MW-2, -5, -6 and -7 exceeded VT DEC PGOS;
- concentrations of TPH detected in groundwater collected from MW-2, -5 and -6 exceeded VT DEC guidelines for TPH in groundwater; and
- the source of soil contamination appears to be historic in origin, perhaps from drum storage when the site was used as a gasoline station.

5.00 - Recommendations

Due the detection of petroleum hydrocarbon contamination in soil and groundwater above VT DEC standards and guidelines, ECS recommends this letter and the Environmental Site Assessment Report completed for the subject property during August 2000 be submitted to the VT DEC. ECS also recommends the removal of contaminated soil in the area of monitoring well MW-2.

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Based on the layout of the soil borings and the vertical and horizontal extent of contaminated soil, ECS recommends the excavation of approximately 300 cubic yards of soil. This action should remove the source of groundwater contamination at the site. The propane tank will need to be relocated during this action.

A work plan would need to be prepared and submitted to the VT DEC prior to the start of this work.

If you have further questions or comments, please contact us at 802-257-1195.

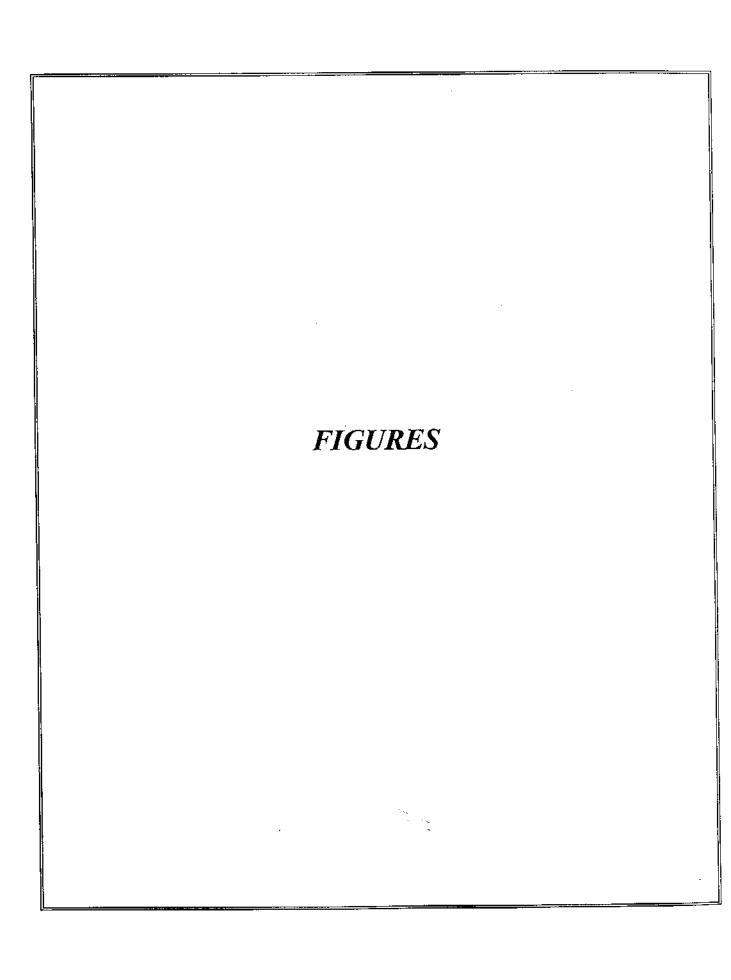
Sincerely,

ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Julie C. Prior Project Manager

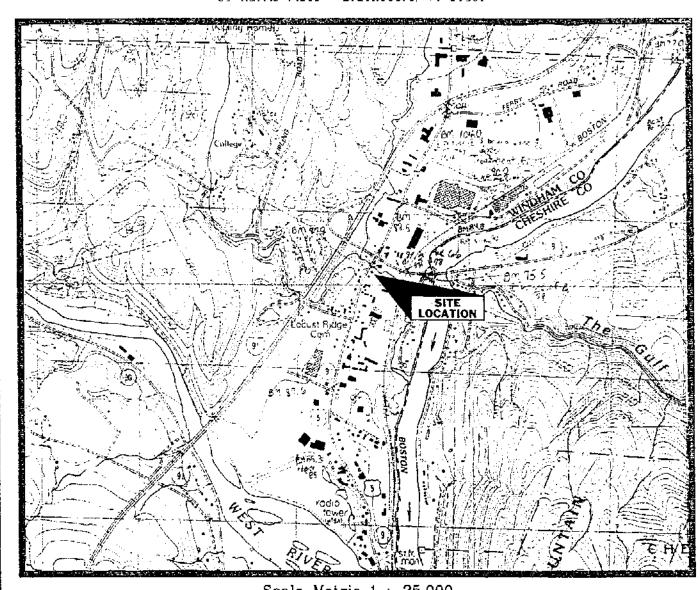
Bruce Tease, Ph.D. Senior Project Manager

Attachments





ENVIRONMENTAL COMPLIANCE SERVICES, INC. 30 Harris Piace * Bratileboro, VT 05301



Scale Metric 1; 25,000

1,000 Meters

1 Inch = 2,083 Feet

1 Centimeter = 250 Meters Contour Interval 6 Meters Base Map: U.S. Geological Survey, Quadrangle Location: Newfane, Vermont

Map Edited: 1984

Photorevised: None

Photoinspected: None

North

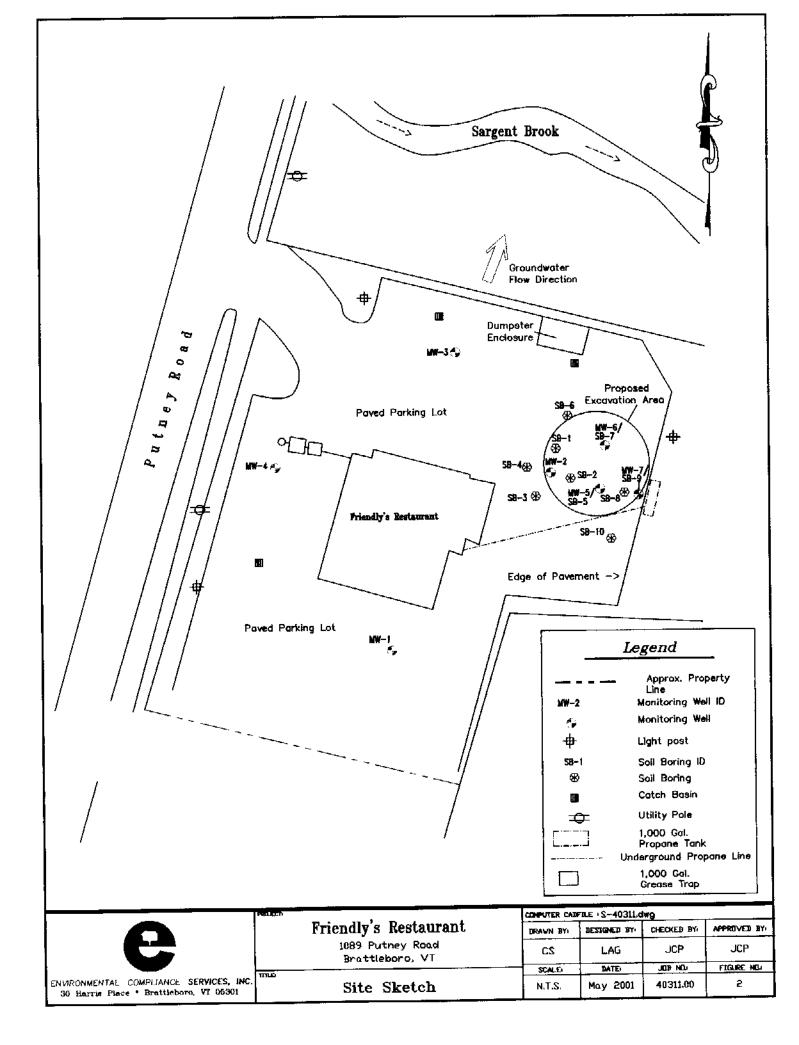
1089 Putney Road Brattleboro, Vermont AutoCAD File: L40311.DWG

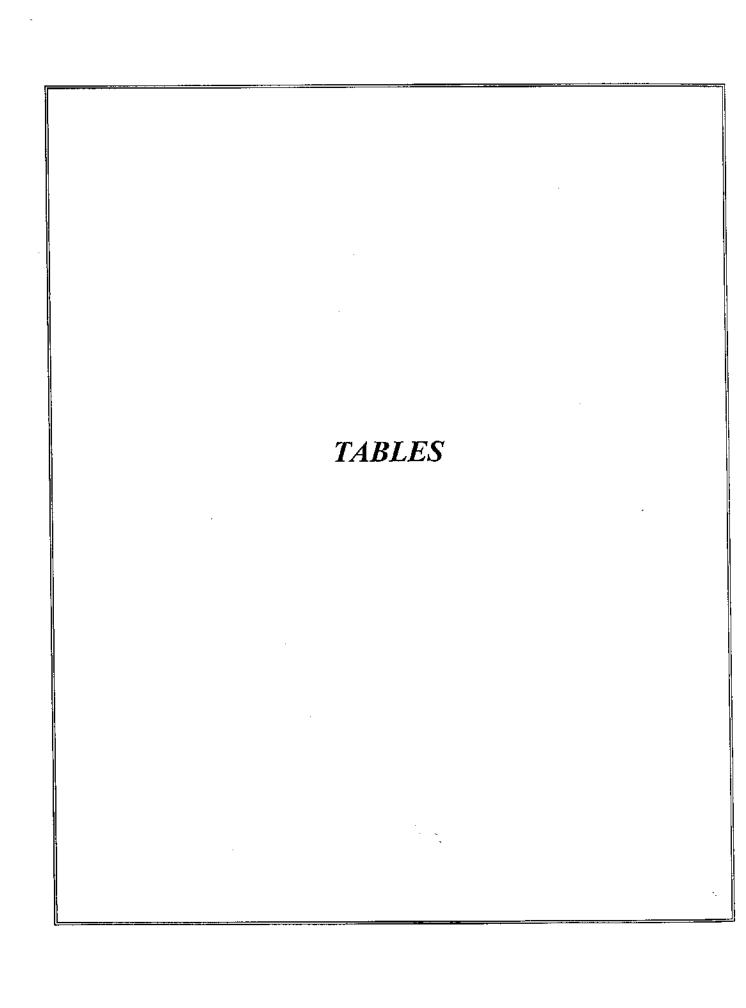
Site Locus

Job No.: 40311

Figure - 1

2,000 Feet





Friendly's Restaurant 1089 Putney Road Brattleboro, Vermont

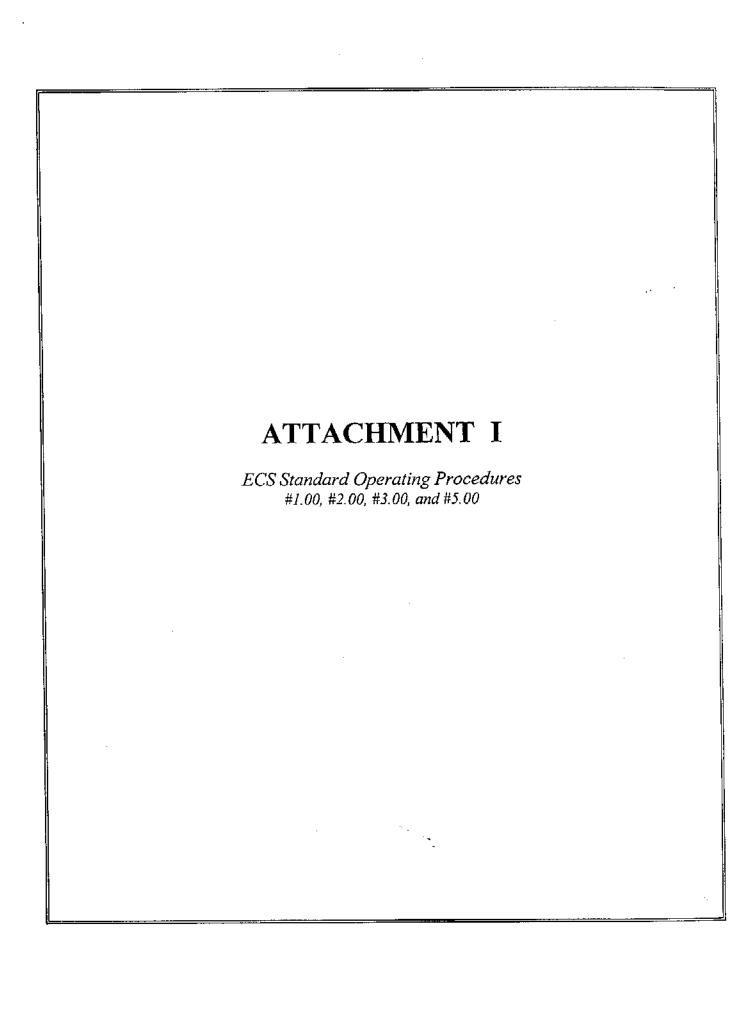
TABLE 1. RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER

WELL ID						TOTAL	1,2,4-	1,3.5-		1	
Sampling Cate		Benzene	Toluene	E:hylhanzena	Xylenes	BTEX	Trimelhylbenzene	Transithylbenzane	Naphthalene	MTBE	TPH
MW-1	PGQS (ug/L)	5	1,000	700	10,000	Na	5	4	20	40	1(mg/L
7/19/00		ND	ND	ND	ND	ND	NO	ND	ND	ND	NT
MW-2									-		
7/19/00		ND	ND	ND	2.3	2.3	4.5	ND	180	ND	NT
3/28/01		- ND	ND	ND	ND	ND	2.7	ND	120	ND	1.8*
MW-3											
7/19/00		ND	ND	ND	ND	ND	ND	ND	ND	NO.	NT
MW-4							<u> </u>			1	
7/19/00	<u> </u>	ND	ND	ND	ND	1.5	ND	ND	ND	ND	NT
MW-5											
3/28/01		1.1	1.1	4.1	3.5	9.8	1.8	ND	47	ND	4,4*
MW-6			<u> </u>								
3/28/01		ND	3.6	ND	ND	3.6	1.4	ND	61	ND	4.1*
MW-7		-									
3/28/01		ND	ND	ND	ND	ND	2.8	ND	170	ND I	0.83*

ND = Not Detected above indicated detection limit

NT = Not Tested (for specific analyte) NS = Not Sampled

* = TPH constituents were reported as unidentified with the closest lingerprint match as #6 fuel oil.



DRILLING EQUIPMENT STANDARDS

1. EQUIPMENT DECONTAMINATION

All drilling equipment and associated tools, including but not limited to, augers, flush-threaded casing, drill rods, sampling equipment, wrenches, etc., that may have come in contact with any material which could cause contamination shall be decontaminated using a high pressure detergent steam cleaning equipment, followed by, if needed a nanograde methanol swabbing. This will be followed by a distilled or controlled water rinse. The control water shall be obtained from a source approved by the supervising field representative.

2. EQUIPMENT AND MATERIALS

All equipment will be in good repair and in proper working order with no visible signs of oil or hydraulic fluid leaks.

The drill rig shall be capable of providing a power driven sectional hollow stem auger and/or flush-threaded casing with a minimum inside diameter of 2 1/2 inches to a minimum depth of 60 feet. In addition, the following equipment shall be available:

- Drill Rods, minimum size equivalent to the "A" Rod, (1 5/8 inches 0.D. and 1 1/8 I.D.);
- lb. Drive Hammer and 300 lb. Drive Hammer;
- Split-spoon Samplers;
- Hollow Stem Auger Plug;
- Roller Bit and Diamond Corer Bit;
- Water Tank and Pump;
- Any other equipment needed to successfully complete job.

MONITORING WELL CONSTRUCTION PROCEDURE

1. MONITORING WELL MATERIALS

All materials used in the completion of monitoring wells shall be in good condition and free of any signs of possible contamination. The following materials may be used in the completion of monitoring wells.

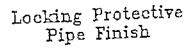
- Schedule 40, flush-joint threaded PVC slotted well screen and solid riser
- Clean silica sand (graded appropriately for site-specific formation; No. 2 typical)
- Bentonite pellets and grout
- Portland Cement
- Flush-mounted curb box or vented steel locking aboveground protective well-casing and lock.

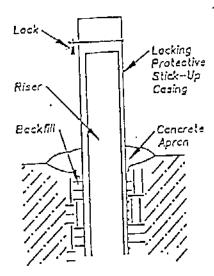
The attached Figure depicts a typical well construction schematic.

2. PROCEDURES

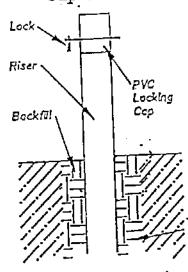
- Upon establishing the bottom elevation of the monitoring well, a two-inch layer of sand will be placed in the bottom of the borehole, followed by the placement of a specified length of well screen and riser within the drill casing. If warranted, filter fabric may be placed on the screen prior to insertion into the drill casing to facilitate filtration. The sand pack will then be continuously added to the annular space as the drill casing are withdrawn. The drill casing will not be pulled above the sand as it is added, ensuring the placement of a continuous sand pack. A weighted tape will be used to continuously monitor the sand pack elevation relative to the auger bottom to ensure the screen has been fully covered. Unless otherwise specified, the sand pack will be placed to an elevation of two feet above the top of the well screen.
- A one-foot (or greater if specified) thick bentonite seal composed of pellets or chips will be added to the annular space. If the seal is placed above the water table, the pellets will be hydrated with potable water. A weighted tape will be used to assure that the bentonite is placed at the proper elevation, is the proper thickness, and is not hung up in the borehole. The drill casing will be withdrawn from above the elevation of the bentonite seal and the natural materials will be allowed to collapse, if specified. If natural materials are not collapsing, clean no. 2 silica sand will be used to fill the voids.

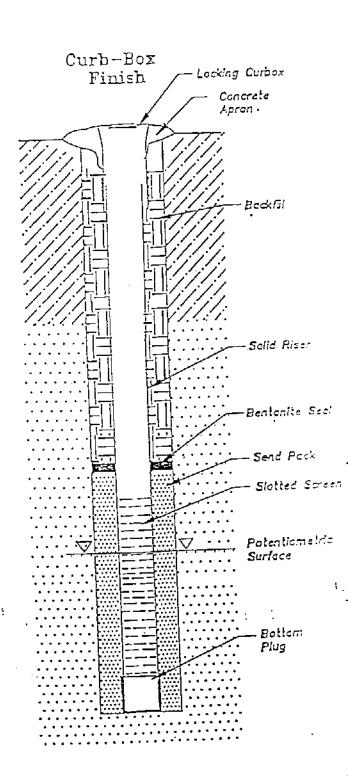
- From the top of the bentonite seal to two feet below grade, the annular space will be backfilled with natural materials unless other materials are specified.
- If well is to be screened below the water table, the annular space above the bentonite seal is to backfilled with a cement/bentonite grout, mixed according to a ratio of approximately 20:1 cement to bentonite (not less than 5:1, if porous formations require more bentonite), with a maximum of 8 gallons of water per 94-pound bag of cement. Grout to be put in place with a sideways or upwards discharging tremie pipe.
- Each well will be completed with either a flush mount or elevated locking, protective casing as specified. The flush mount casings will be set in Portland cement that extends from the top of the native fill to ground surface. The cement seal shall be a minimum of 2 feet in diameter. The top of the cement surface will be tapered outward to drain water away from the well.
- The upper edge of the PVC casing will be notched to provide a datum for surveying and future measurements. On wells with a flush mount protective casing, a vented, locking compression cap will be used to plug the PVC riser. The wells requiring an aboveground protective casings will be completed with a vented slip-on PVC cap and locking metal cover.





Locking PVC Cap Finish





GROUNDWATER MONITORING WELL with Alternative Finishings

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	ECTOR:				CUIENT NAME:		MIPLER CORE SARREL I Spoon Casing Elevation (ft.) 3/8" PVC Elevation (ft.) 30" Date States Date Completed Soil Descriptions				
		WATER OBSERVA	ATIONS		CASING	SAMPLER	CORE SARREL	ì			
			Stabilization Time	TYPE	Hallow Stem Auger	Split Spcon		Casing Elevation (ft.)			
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_				HAMMER WEIGHT	<u> </u>	140 lbs		Surface Elevation (ft.)	<u> </u>		
				MAMMER FALL		30"		Date Stanes	ļ		
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Pt Photoionization Meter. Results reported in parts per million (PPM). Detection limit = 0.2 ppm. BOL = Below Detection Limit.

^{2.} Groundwater encountered at approximately 13 feet below grade.

^{3.} Completed at 15' as a 2" diameter monitoring well, 10' of 0.010" slotted screen, 5' of solid riser, sand pack between 15' and 4', bentonite seal from 4' to 3', natural fill to surface, casing flush to ground surface.

WELL DEVELOPMENT PROCEDURES

Fine-grained materials are often smeared on the sides of the borehole during drilling reducing the hydraulic conductivity of the materials opposite the screened portion of the well. These fine-grained materials must be removed from the well and well borehole in order to enhance the hydraulic connection between the well and the aquifer. Undeveloped wells may produce groundwater samples containing suspended sediments that will clog field filtering equipment and bias the chemical analysis. Well development procedures are based on the Massachusetts DEP guidelines (MADEP, 1991) and ASTM Designations D 5092 - 90 and D 4750 - 87 (References).

Well Development will be completed by (1) surging and bailing; or (2) mechanical surging and pumping, as specified.

The surging will start with a slow pace near the top of the water column and progress to a faster pace near the well screen. Care will be taken during well development to avoid entrapping air in the aquifer formation or plugging the well screen with fine-grained materials. All equipment placed in the monitoring well for development will be either dedicated to each well or decontaminated following specified or standard operating procedures. Decontamination will occur between each well location. In cases of gross contamination, rinse water will be drummed and disposed of according to applicable municipal, state, and federal regulations.

1. SURGING AND BAILING

Decontaminated stainless-steel bailers will be used to surge and bail the wells. Surging will be performed to first loosen the fine materials and draw them through the well screen followed by bailing to remove the sediment-laden water from the well. This procedure will be continued until the turbidity of the water is reduced and the water appears clear.

2. MECHANICAL SURGING AND PUMPING

OPTION 1: Wells can be developed using a QED Environmental Systems, Inc. Sample Pro 2-inch Well Development Pump or equivalent. This device combines mechanical surging (to loosen fine materials and draw them through the well screen) and pumping (to remove sediment laden materials from the well). Flexible wipers (Buna-N) are attached to the pump with a small clearage between the wiper and the walls of the well. As the pump is lowered into the well the wipers create a surging action forcing water within the well out through the well screen into the aquifer formation. As the pump is moved up, the water is pulled back through the screen into the well along with fine-grained materials. The QED pump will pump the sediment laden water from the well at an average flow of 5 gallons per minute during development. This procedure will be continued until the turbidity of the water is reduced and the water appears clear.

OPTION 2: Wells can be developed using a Waterra check valve attached to polyethylene tubing, which is then inserted to the screened portion of the well, and then gently pumped up and down. The pumping action of the check valve will both surge the filter pack and surrounding formation, while at the same time remove sediment and water. When operated by hand, a pumping rate of at least 0.5 gallons per minute can be achieved over a short period of time. A higher pumping rate (up to 4 gallons per minute) for longer periods can be achieved with a power-actuated tubing pump. This procedure will be continued until the turbidity of the water is reduced and the water appears clear.

SUBSURFACE SOIL SAMPLE COLLECTION PROCEDURES

Subsurface soil samples will be collected during the performance of soil borings and soil probes in order to determine the nature and extent of contamination. Soil sampling protocols are based on standard methods found in the following documents: MADEP (1991), USEPA (1991), USEPA (1993) and ASTM Designation: D 1586-84.

1. MATERIALS

The following materials will be available during subsurface soil sampling:

- health and safety equipment;
- disposable gloves;
- sample retrieval device (split-spoon sampler, macro-core sampler);
- · map of the Site;
- field book;
- aluminum foil and zip-lock type bags;
- stainless steel sampling tool and bowl;
- polyethylene sheeting;
- knife;
- sample containers;
- photoionization detector;
- paper towels;
- chain-of-custody forms;
- cooler and ice;

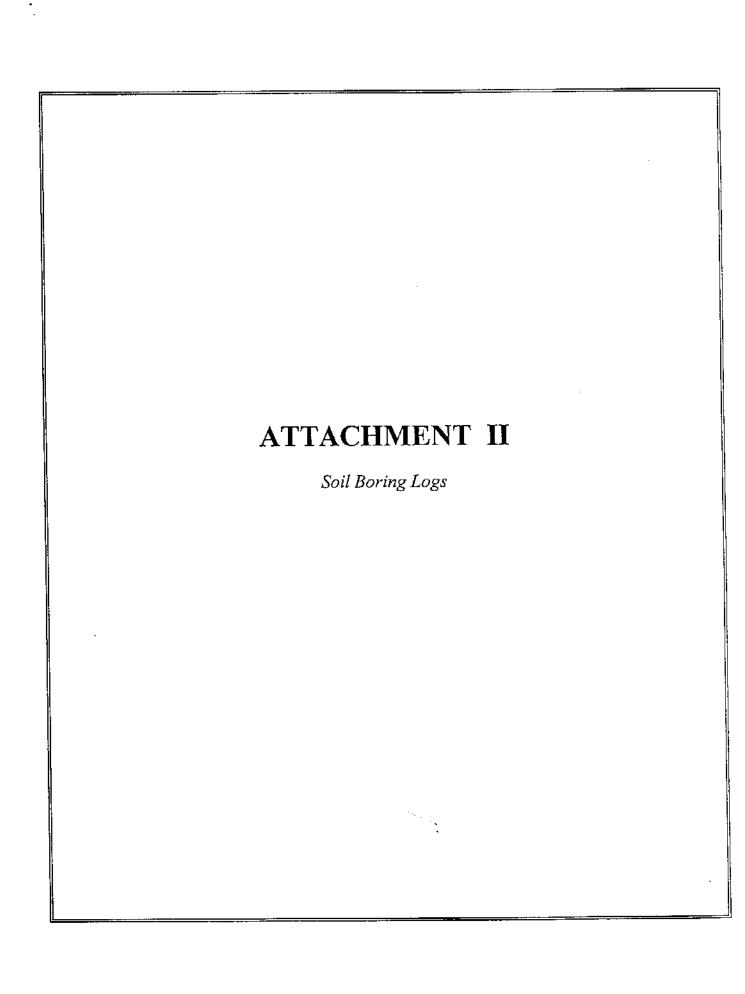
• decontamination equipment and supplies (non-phosphate detergent, potable water, methanol and 10% nitric acid rinses, buckets, brushes, etc.).

2. JAR HEADSPACE ANALYTICAL SCREENING PROCEDURE

The following are the recommended MADEP (BWSC Policy #WSC-94-400) procedures for conducting analytical screening of gasoline-contaminated soils utilizing a portable Photoionization Detector (PID) or Flame Ionization Detector (FID):

- 1. Half-fill two clean glass jars with the sample to be analyzed. Quickly cover each open top with one or two sheets of clean aluminum foil and subsequently apply screw caps to tightly seal the jars. Sixteen ounce (16 oz.) (approx. 500 ml) soil or "mason" type jars are preferred; jars less than 8 oz. total capacity (approx. 250 ml), should not be used.
- 2. Allow headspace development for at least 10 minutes. Vigorously shake jars for 15 seconds both at the beginning and end of the headspace development period. Where ambient temperatures are below 32F (0 C), headspace development should be within a heated vehicle or building.
- 3. Subsequently to headspace development, remove screw lid/expose foil seal. Quickly puncture foil seal with instrument sampling probe, to a point about one-half of the headspace depth. Exercise care to avoid uptake of water droplets or soil particulates. As an alternative, syringe withdrawal of a headspace sample with subsequent injection to instrument probe or septum-fitted inlet is acceptable contingent upon verification of methodology accuracy using a test gas standard.
- 4. Following probe insertion through foil seal and/or sample injection to the probe, record highest meter response as the jar headspace concentration. Using foil seal/prove insertion method, maximum response should occur between 2 and 5 seconds. Erratic meter response may occur at high organic vapor concentrations or conditions or elevated headspace moisture, in which case headspace data should be discounted.
- 5. The headspace screening data from both jar samples should be recorded and compared; generally, replicate values should be consistent to plus or minus 20%.
- 6. PID and FID field instruments shall be operated and calibrated to yield "total organic vapors" in ppm (v/v) as benzene. PID instruments must be operated, with a 10.0 eV (+/-) lamp source. Operation, maintenance, and calibration shall be performed in accordance with the manufacturer's specification. For jar headspace analysis, instrument calibration shall be checked/adjusted no less than once every 10 analyses, or daily, whichever is greater.

7. Instrumentation with digital (LED/LCD) displays may not be able to discern maximum headspace response unless equipped with a "maximum hold" feature or strip-chart recorder. Deviations, departures and/or additions to the above procedures should be consistent with 310 CMR 40.0017. In such cases, compelling technical justification must be presented and documented by the methodology proponent.



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		WATER OBSERV	ATIONS	1	CASING	SAMPLER	CORE BARREL	1			
	Date	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (fL)			
		Берет		INSIDE DIAMETER		1.125*		PVC Elevation (fL)		-	
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Depth	Sample Number		Penetration/ Recovery	Blows per 6" penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes
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				<u> </u>	_		Cl maint			4.2	├
	S-2	2 - 4	24/24		-	Grey, f. SAND, trace Gravel, moist			!	1.3	5
		<u> </u>			4	Grev. Silt. trace Br., f. SAND, moist				1.0	
4	S-3	4 - 6	24/24	<u> </u>	-	Grey, Silt, trace Br., f. SAND, moist				1.0	╀┤┤
		<u> </u>	24/24	<u> </u>	4	Grey, Silt, trace Br., f. SAND, moist			ļ	0.0	+
	S-4	6-8	24/24		4	Jorey, one, wase 2	, 1. 67.115, 115.41				1
		0.40	24/24	1	-{	Grey, Silt, trace B	r., f. SAND, wet			0.0	
8	5-5	8-10	24/24	 	┪		, •				1
	S-6	10 - 12	24/24	· · · · · · · · · · · · · · · · · · ·	1	Grey, Silt, trace 8	Br., f - m. SAND, w	et		0.0	
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12		·			12' end of boring	1					
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- 3. Groundwater encountered at approximately 8' 10' feet below grade.
- 4. Soil boring only; no monitoring well installed,
- Slight petroleum odor was detected

^{1.} Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock ^{1M} bags, with a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

^{2.} Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.

4								BORING NO.:		SB-2	
Æ	.	Environmer	ntal Compliance	Services, Inc.	SOIL BOR	NG and MONITOR	ING WELL	DOCUMENT NO.:	·		
K		30 Harris	Place, Brattelboro, Ve	ermont 05301		NSTALLATION LO	G .	SHEET	1	O۲	1
					10 to		•		LOCATION		
ORING	COMPAN	Environmenta	al Compliance S	Services, Inc.	JOB NUMBER:	40311.00					
ORING COMPAI CORES	47			Massachusetts	PROJECT NAME:	Friendly's Restura	nt		. 0:4- 1	7/	
OREM		N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd., I	Brattleboro	1 See	e Site F	1an	-
CS INS	PECTOR:	S. Menard			CUENT NAME:	Joe Pieclak	•	1			İ
	GROUNG	WATER OBSERV	/ATIONS	<u> </u>	CASING	SAMPLER	CORE BARREL	1			
	Date	Depth	Stabilization Time	TYPE		1.B.		Casing Elevation (fL)			
				INSIDE DIAMETER		1.125"		PVC Elevation (fL)			
			1	HAMMER WEIGHT		Direct Drive		Surface Elevation (fL)			
				HAMMER FALL	<u>"</u>			Date \$larted		3/14/01	
		-		NOTES:	Earthprobe sampli	ng method		Date Completed	;	3/14/01	
Depth	Sample Number	Sample Depths	Penetralion/ Recovery	Blows per 6" penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes
ō	S-1	0-2	24/24		SAND	Br grey, f m. S.	AND,dry			0.0	
			<u> </u>		1						
	5-2	2-4	24/24			Grey, StLT, some	e brown f. Sand, tra	ace gravel, dry		1.7	5
			1		1						
4	S-3	4-6	24/12	<u> </u>	SILT	Br grey, Silt, trai	ce Br., f. SAND, di	у		1.7	5
			 	1	and						
	S-4	6-8	24/24		Sand	Br grey, Silt, tra-	ce Br., f. SAND, m	oist		1.5	
]	1			1		
8	S-5	8 - 10	24/24]	Br grey, Silt, and	d f. SAND, wet		•	0.0	
				ļ						<u></u>	
	\$-6	10 - 12	24/24			Br grey, Silt, tra	ce Br., f. SAND, w	et	ļ	0.0	
						_}					
12					12' end of boring						<u> </u>
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- 3 Groundwater encountered at approximately 8' 10' feet below grade.
- Soil boring only; no monitoring well installed.
- 5. Slight petroleum odor was detected

^{1.} Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock ^{1M} bags, with a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

^{2.} Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.

		:						BORING NO.:		SB-3	
K		Environme	ntal Compliance	Services, Inc.	SOIL BORI	NG and MONITOR	ING WELL	DOCUMENT NO.:			\neg
Œ			Place, Brattelboro, Ve		41	ISTALLATION LO	G	SHEET	1	QF	1
J				•					LOCATION		
ORING	COMPAN	Environmenta	al Compliance S	ervices, Inc.	JOB NUMBER:	40311.00		Î .			
DRING OMPAN	14		reet, Agawam, I		PROJECT NAME:	Friendly's Restura	nt	C	· Cito I	Olon	
OREMA	_	N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd.,	Brattleboro	1 See	e Site F	rian	
CS INS	PECTOR:	S. Menard			CLIENT NAME:	Joe Pieciak		1			ļ
	GROUND	WATER OBSER	VATIONS		CASING	SAMPLER	CORE BARREL	1			- 1
-	ate	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (ft.)	·		
			 	INSIDE DIAMETER		1.125*	·	PVC Elevation (ft.)			
			i	HAMMER WEIGHT		Direct Drive		Surface Elevation (fL)			
				HAMMER FALL				Oate Started		3/14/01	
				NOTES:	Earthprobe sampli	ng method		Oate Completed		3/14/01	
Depth	Sample Number	Sample Depths	mple Penetration/ Blows per penetration Pe		Strata Changes		Soil Descriptions		Well As Built	Field Testing	Nates
0	S-1	0 - 2	24/24		SAND	light br grey, f	m. SAND,dry			0.0	
	ļ				<u></u>						
	S-2	2 - 4	24/24	Ĭ		light br grey, SII	LT and f. Sand, dry	•		1.0	Щ
]						
4	S-3	4 - 6	24/6		ີ] ≲ι∟۲	Grey, SILT, some	Br., f m. Sand, r	noist		0.0	
					and				1		
	S-4	6-8	24/24		f m. Sand	Grey, SILT, trace	Br., f. SAND, mois	t.		0.3	
					_						
8	S-5	8 - 10	24/24			Grey, SILT, trace	Br., f m. SAND	, wet		0.0	ļ
					_	1					
	S-6	10 - 12	24/24			Grey, Silt, some £	3r., f m. SAND, v	vet		0.0	<u> </u>
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12				ļ	12' end of boring						
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- 3. Groundwater encountered at approximately 8' 10' feet below grade.
- Soil boring only; no monitoring well installed.
- 5. Slight petroleum odor was detected

Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock TM bags, with a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

^{2.} Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.

4								BORING NO.:		SB-4	
Æ		Environme	ntal Compilance	Services, Inc.	SOIL BORT	BORING and MONITORING WELL OCCUME INSTALLATION LOG SHEET					
			Piace, Brattelboro, Ve		IN	ISTALLATION LO	SHEET	1	ΩF	1	
1									LOCATION	,	
ORING	COMPAN	Environment	al Compliance S	Services, Inc.	JOB NUMBER:	40311.00]			
ORING OMPAN DORES	lY i	588 Şilver St	reet, Agawam,	Massachusetts	PROJECT NAME:	Friendly's Restura	nl	So	s Cita I	Zlan	
QREMA		N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd.,	Brattleboro	j see	e Site F	riaii	
CS INS	PEGTOR:	S. Menard			CLIENT NAME:	Joe Pieciak		1			
	GROUND	WATER OBSER	VATIONS		CASING	\$AMPLER	CORE BARREL	1			
C	ate	Depth	Stabilization Time	TYPE	1	L.B.		Casing Elevation (ft.)			
				INSIDE DIAMETER		1.125"		PVC Elevation (ft.)			
			<u> </u>	HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)			
			<u> </u>	HAMMER FALL		<u> </u>		Date Started		3/14/01	
			 	NOTES:	Earthprobe samplin	ng method	1	Date Completed		3/14/01	
Depth :	Sample	Sample	Penetration/	Blows per 6"	Strata Changes		Soil Descriptions	<u> </u>	Well As Built	Field Testing	Notes
•	Number	Deplhs	Recovery	penetration	Ţ.				ļ		
0	S-1	0 - 2	24/24			light br grey, Sit	T and f. Sand, so	me Silt, dry	İ	0.0	
	\$-2	2-4	24/24		1	Grey, SILT and f.	Sand, dry			0.0	
	3-2				_	1	,		1		
	S-3	4 - 6	24/10	 	d SILT	Grev. SILT. trace.	Br., f. Sand, moist		İ	0.0	
4	3-3	4-0	24/10	 	-	0,0,,0,21,,1000	21,, 11 00.10, 110.01				
	-		24/24	 	and f. Sand	Grey SILT trace	Br., f. Sand, moist			0	
	S-4	6-8	24124	<u> </u>	1. 5310	Ciey, Oici, trace	G1.41 Octio, (110)		ļ	· · · · · ·	
_			1 21/01		4	Grey, SILT and B	. (SAND wat			0.0	
8	\$-5	8 - 10	24/24		-{	Grey, GILT and B	(., I. OAND, WEL			· • • • • • • • • • • • • • • • • • • •	┢
		1	04/04	ļ	4	Grey, Silt, some B	Be & SAND wat		}	0.0	
	S-6	10 - 12	24/24	<u> </u>	4	Grey, Sill, Some C	31., 1. 3A11D, WEL			0.0	-
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12	<u></u>	<u> </u>		ļ	12' end of boring						-
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- 3. Groundwater encountered at approximately 8' 10' feet below grade.
- 4. Soil boring only; no monitoring well installed.
- 5. Organics at = 10 12, bgs

^{1.} Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock TM bags, with a Photovac Model 2020 photolonization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter.

PETG liner.

		•						BORING NO.:		58-5	
4		Environmer	ital Compliance	Services, Inc.		ING and MONITOR		DOCUMENT NO.:			
	_	30 Harris	Place, Braftelboro, Ve	ermont 05301	` #	NSTALLATION LO	G	SHEET	1	QF	1
1									LOCATIO	4	
ORING	COMPAN	Environmenta	I Compliance S	Services, Inc.	JOB NUMBER:	40311,00					
ORING OMPAN	Υ	588 Silver St	reet, Agawam,	Massachusetts	PROJECT NAME:	Friendly's Restura	nt	٠,	o Cito	Dian	
OREMA		N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd.,	Brattleboro	1 26	e Site	Piali	
CS INS	PECTOR:	S. Menard			CLIENT NAMÉ:	Joe Pieciak		1			
	GROUNE	WATER OBSERV	/ATIONS		CASING	SAMPLER	ÇORE BARREL	1			
	late	Depth	Stabilization Time	TYPÉ	1	L.B.		Casing Elevation (it)			
				INSIDE DIAMETER		1.125"		PVC Elevation (FL)			
				HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)			
		 		HAMMER FALL		··-		Date Started		3/14/01	
		 	 	NOTES:	Earthprobe sampli	na methad		Dale Completed		3/14/01	
		· · ·				1	·		 	1	Т
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6* penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes
0	S-1	0 - 2	24/24		SAND	Br grey, t m.	SAND, dry			0.0	
	6.5	2 - 4	24/24		1	Grey, SILT, some	f m. Sand. drv			2.6	7
	S-2		Z+1Z*	 	-	3.57, 5.61, 55115			935.00 · ·		╅╌
	<u> </u>	<u> </u>	<u>.</u>			Br., f m. SAND	1 trace Silt dos			31	7
4	S-3	4 - 6	24/6	ļ. <u>.</u>	\$iLT	Bi., i, viii. SAINE	z, nace on, ory			≅ 	+ ′
	<u> </u>	<u>.</u>	0.101		and	Grey, SILT, some	of Speed moiet		<u> </u>	9.7	7
	S-4	6-8	24/24	-	f. Sand	Grey, St. 1, Stille	t. Banu, moist				+-
					-						
8	S-5	8 - 10	24/10			Grey, SILT, some	e I. Sand, wet			3.2	7
					_					*	+-
	S-6	10 - 12	24/24		_	Grey, Silt, and f. S	SAND, wet			· 00	ļ
						1					 _
12	S-7	12 - 14	24/24			Grey, m - c. SAN	D, wet			0.0	
				Ι΄							<u> </u>
	\$-8	14 - 15	24/24	Ţ.		Grey, m - c. SAN	D, wet			0.0	
				1	15' end of boring	7					<u> </u>
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- with a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.
- 2. Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.
- 3. Well completed at 15' a 1.25" monitoring well. 5' of 0.010" slotted screen, 10' of solid riser. Sand pack-between 15' and 3', bentenite seal from 3' to 2', natural fill from 2' to 1', cement from 1' to surface grade.
- 4. Total Well Depth: 15'. Screen Diameter: 1.25", Length: 5', Riser Diameter: 1.25" length: 10' PID type: 2020
- 5. Groundwater encountered at approximately 8' 10' feet below grade.
- 6. Odors of petroluem were detected

	Screen	Benetinite
	Sand pack	 Soild riser
7	Natural fill	Cement

					- T - 1 - 1 - 1			BORING NO.:		SB-6	
		Environme	ntal Compliance	Services, Inc.	SOIL BORI	NG and MONITOR		DOCUMENT NO.:			
		30 Harris	: Place, Brattelboro, Ve	ermont 05301	IN	ISTALLATION LO	G	SHEET	1	OF .	1
			•						LOCATION		
ORING	COMPAN	Environment	al Compliance S	Services, Inc.	JOB NUMBER:	40311,00					
ORING COMPAN ADDRES	۱Y	·	treet, Agawam, I		PROJECT NAME:	Friendly's Restura	nt	500	e Site F	Olan	
OREM		N. Cardinale	:		PROJECT ADDRESS.	1089 Putney Rd.,	Brattleboro	၂ ၁၉	e Site r	-idii	
ECS INS	PECTOR:	S. menard			CLIENT NAME:	Joe Pieciak		1			İ
	GROUND	WATER OBSER	VATIONS		CASING	SAMPLER	CORE BARREL	1			
	ate	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (fL)			
			<u> </u>	INSIDE DIAMETER		1.125"		PVC Elevation (ft.)			
		-		HAMMER WEIGHT	<u> </u>	Direct Drive		Surface Elevation (fl.)			
		 	1	HAMMER FALL		<u> </u>		Date Started		3/14/01	
				NOTES.	Earthprobe sampli	ng method		Date Completed		3/14/01	
Depth	Sample Number	Sample Depihs	Penetration/ Recovery	Blows per 6* penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes
0	S-1	0-2	24/24		SAND	Br., f m. SAND,	trace Gravel, dry			0.0	
		-			1						
	S-2	2-4	24/24			Br grey SILT, tr	ace f m. Sand, m	oist		0.0	
					\$ILT	1					
4	S-3	4-6	24/8		and	Grey, Silt, trace f.	- m. Sand, moist		ļ .	0.0	
					f-m SAND	1			1		
	S-4	6 - 8	24/24		1	Grey, SILT, trace	f m. Sand, trace	gravel, moist		0.0	
		1			7						
8	\$-5	8 - 10	24/24		7	Grey, Silt, trace f.	Sand, wet		1	0.0	
	S-6	10 - 12	24/24]	Grey, Silt, trace f	. SAND, wet			0.0	
12		1			12' end of boring	1					
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- Groundwater encountered at approximately 8' 10' feet below grade.
- Soil boring only; no monitoring well installed.
- 5. Slight petroleum odor was detected

^{1.} Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock The bags, with a Photovac Model 2020 photoionization detector (PiD). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

^{2.} Soit samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.

								BORING NO.:		S8-7	
		Environmen	ital Compliance	Services, Inc.	SOIL BORI	NG and MONITOR	ING WELL	DOCUMENT NO.:			
	<u></u>		Place, Brattelboro, Vi		11	ISTALLATION LO	G .	SHEET	1	OF	1
1									LOCATION	<u> </u>	
		Environmenta	il Compliance 5	Services, Inc.	JOB NUMBER:	40311,00				-	
ORING OMPAN (DORES)	Y	588 Silver Str	eet, Agawam, I	Massachusetts	PROJECT NAME:	Friendly's Restura	nt	S .	o Sito	Dian	
OREMA	N.	N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd.,	Brattleboro] se	e Site	ridii	
ÇŞ INS	PECTOR:	S. Menard			CLIENT NAME:	Joe Pieciak					
	GROUND	WATER OBSERV	ATIONS		CASING	SAMPLER	CORE BARREL	<u> </u>			
D	ate	Depih	Stabilization Time	TYPE		L.B.		Casing Elevation (ft.)			
				INSIDE DIAMETER	1	1.125"		PVC Elevation (ft.)			
				HAMMER WEIGHT	<u> </u>	Direct Drive		Surface Elevation (A.)		<u> </u>	
				HAMMER FALL				Date Started		3/14/01	
				NOTES: -	Earthprobe sampli	ng method		Date Completed		3/14/01	,
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6* penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes
٥	S-1	0-2	24/24		\$AND	Br. f m. SAND	. dry		managa caram	0.0	
	S-2	2 - 4	24/24			Grey, SILT and f.	Sand, dry			0.0	
4	S-3	4-6	24/10		SILT	Grey, SILT and f.	Sand, dry		122	# 1.1	
				<u> </u>	and	ļ					
	S-4	6-8	24/24		f. Sand	Grey, SILT, trace	f. Sand, moist				6
8	\$ -5	8 - 10	24/24		-	Grey, SILT, trace	f. Sand, wet		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0	
	S-6	10 - 12	24/24		1	Grey, SILT and f.	Sand, wet			0.0	
12	S-7	12 - 14	24/24		_	Grey, SILT and f.	Sand, wet			0.0	
	\$-8	14 - 15	24/24			Grey, SILT and f.	Sand, wet			2 0.0	
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- 1. Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock Microsophysis a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.
- 2. Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.
- 3. Well completed at 15' a 1.25" monitoring well. 5' of 0.010" slotted screen, 10' of solid riser, Sand pack-between 15' and 3', bentenite seal from 3' to 2', natural fill from 2' to 1', cement from 1' to surface grade.
- 4. Total Well Depth: 15', Screen Diameter: 1,25", Length: 5', Riser Diameter: 1,25" length: 10' PID type: 2020
- Groundwater encountered at approximately 8" 10" feet below grade.
- 6. Odors of petroluem were detected

Screen Benetinite
Sand pack Soild riser
Natural fill Cement

4					i sa sa sa sa sa sa sa sa sa sa sa sa sa			BORING NO.:		SB-8	
	.	Environme	ntal Compliance	s Services, inc.	SOIL BOR	NG and MONITOR	RING WELL	DOCUMENT NO.:			
T		30 Harris	Place, Bratte/boro, Vi	ermont 05301	11	ISTALLATION LO	G 1 1	SHEET	1	QF .	1
						1.5.	· .		LOCATION		$\neg \neg$
BORING	COMPAN	Environment	al Compliance :	Services, Inc.	JOB NUMBER:	40311.00					\neg
BORING COMPAI	<u></u>			Massachusetts	PROJECT NAME:	Friendly's Restura	int	<u></u>	- C:4- I	7/	
FOREMA		N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd.,	Brattleboro	j see	e Site F	rian	
ECS INS	PECTOR:	S. menard			CLIENT NAME:	Joe Pieciak		1			
	GROUND	WATER OBSERV	/ATIONS	1	CASING	SAMPLER	CORE BARREL	1			
	ate	Depth	Stabilization Time	TYPE .		L.B.		Casing Elevation (fL)			
				INSIDE DIAMETER		1,125"		PVC Elevation (ft.)			
			i	HAMMER WEIGHT		Direct Drive	i	Surface Elevation (fl.)			
				HAMMER FALL	1		<u> </u>	Date Started		3/14/01	
	•			NOTES:	Earthprobe sampli.	ng method		Date Completed		3/14/01	
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6* penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes
0	S-1	0-2	24/24		SAND	Br., f m. SAND.	, some c. Sand, dry	•		0.0	
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	\$-2	2-4	24/24			Grey - Br., SILT a	and f. SAND, dry		i	3.3	5
					SILT						
4	\$-3	4 - 6	24/6		and	Grey - Br., Silt an	d f. SAND, moist			0.4	
				Ī	f. SAND	İ					
	S-4	6 - 8	24/24	l		Grey, Silt and f. S	SAND, maist			5.1	5
ŀ											
8	S-5	8 - 10	24/12] ·	Grey, Silt, trace 8	Br., f. SAND, wet		•	1.2	
					_				<u> </u>		
	S-6	10 - 12	24/24			Grey, Silt, trace B	3r., f - m. SAND, w	et	1	0.0	
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12					12' end of boring						
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- 3. Groundwater encountered at approximately 8' 10' feet below grade.
- 4. Soil boring only; no monitoring well installed.
- 5. Slight petroleum odor was detected

^{1.} Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock TM bags, with a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

^{2.} Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.

				- 2				BORING NO.:		\$B-9	
Æ		Environmen	ital Compliance	Services, Inc.		NG and MONITOR		DOCUMENT NO :			
		30 Harris I	Place, Brattelboro, Ve	rmont 05301	i IN	ISTALLATION LO	3	SHEET	1,	OF	1
1									LOCATION		
ORING	COMPAN	Environmenta	al Compliance S	Services, Inc.	JOB NUMBER:	40311,00					
ORING CMPAN	r]	588 Silver Str	reet, Agawam, I	Massachusetts	PROJECT NAME:	Friendly's Resturar	nt	S.	n Cita E	llan	
DORES OREMA		N. Cardinale			PROJECT ADDRESS:	1089 Putney Rd., I	Brattleboro	J 260	e Site F	riaii	i
ÇS INS	PECTOR:	S. Menard			CLIENT NAME:	Joe Pieciak]			
	GROUND	WATER OBSERV	/ATIONS		CASING	SAMPLER	CORE BARREL				
D	rate	Depth	Stabilization Time	TYPE		L.B.		Casing Elevation (ব.)			
		· · · · · · · · · · · · · · · · · · ·		INSIDE DIAMETER		1,125		PVC Elevation (A)			
				HAMMER WEIGHT		Direct Drive		Surface Elevation (ft.)			
				HAMMER FALL	-			Date Started	3	/14/01	
				NOTES:	Earthprobe sampli	ng method		Date Completed	3	/14/01	
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6* penetration	Strata Changes		Sail Descriptions	•	Well As Built	Field Testing	Notes
0	S-1	0 - 2	24/24			Br., m c. SANC), some dark Br. F	. Sand dry	م شده م	0.0 -	
	S-2	2-4	24/24		-	Br. m c. SAND,	drv		المشمد	0.0	
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4	5-3	4 - 6	24/24	·	SILT	Br grey f. SAND	o, and SILT, dry			0.0	$\vdash \vdash \vdash$
4	3-3	1	1	-	and	1 2	•				1
	Ş- 4	6-8	24/24		f. Sand	Br grey f. SANG	o, and SILT, dry		## ET 10 Apr	0.0	
	··•	 			1						1
8	S-5	8-10	24/24		<u> </u>	Br grey f. SANO	D, and SILT, wet			0.0	
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	\$-6	10 - 12	24/24			Grey f. SAND, ar	nd SILT, wet			0.0	+-1
12	\$-7	12 - 14	24/24		-	Grey f. SAND, ar	nd SILT, wet			0.0	
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	Ş-8	14 - 15	24/24	ļ		Grey f. SAND, ar	nd SILT, wet			0.0	igspace
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- Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or zip-lock leads and a Photovac Model 2020 photoionization detector (PID). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv
- 2. Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.
- 3. Well completed at 15' a 1.25" monitoring well. 5' of 0.010" slotted screen, 10' of solid riser, Sand pack between 15' and 3', bentenite seal from 3' to 2', natural fill from 2' to 1', cement from 1' to surface grade.
- 4. Total Well Depth: 15', Screen Diameter: 1.25", Length: 5', Riser Diameter: 1.25" length: 10' PID type: 2020
- Groundwater encountered at approximately 8' 10' feet below grade.
- 6. Odors of petroluem were detected

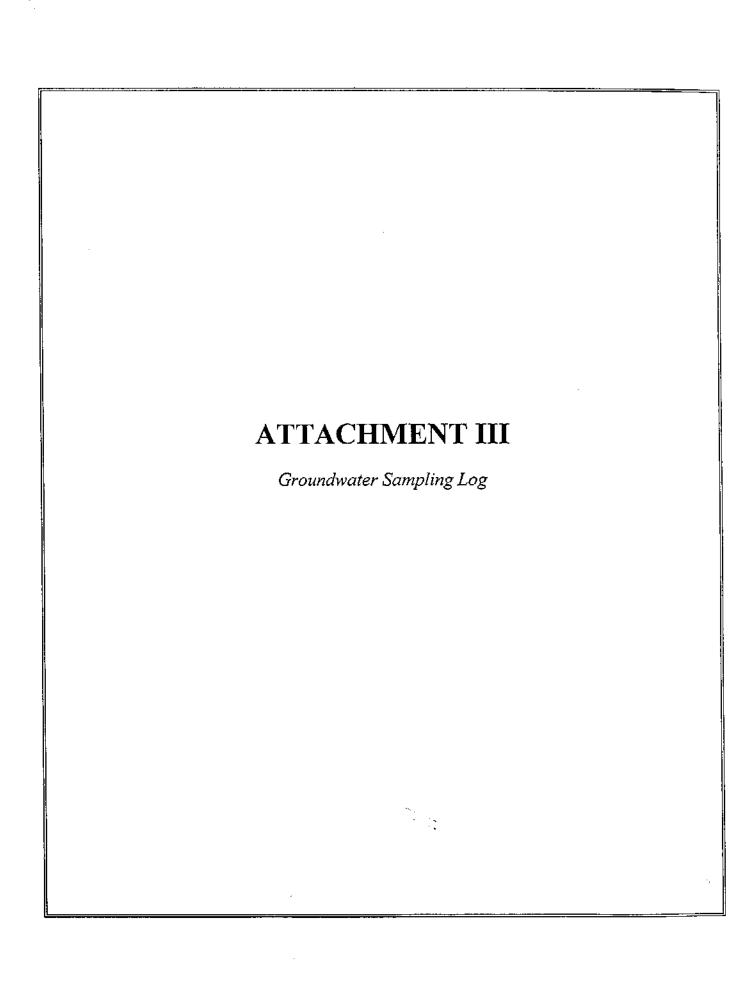
	Screen	Benetinite
30.	Sand pack	Soild riser
	Natural fill	Cement
		 _

4								BORING NO.:		SB-10			
Environmental Compliance Services, Inc.			SOIL BORI	ING and MONITOR	RING WELL	DOCUMENT NO.:							
30 Hamis Place, Breffelboro, Vermont 05301		11	NSTALLATION LO	G	SHEET	1	QF	1					
				•			LOCATION	<u> </u>					
BORING	COMPAN	Environmenta	al Compliance :	Services, Inc.	JOB NUMBER:	40311.00							
BORING			PROJECT NAME:	Friendly's Restura	int		1						
FCREM.		N. Cardinale			PROJECT ADDRESS: 1089 Putney Rd.		Brattleboro	See Site Plan					
ECS INS	PECTOR:	S. menard	·····		CLIENT NAME:	Joe Pieciak		1					
	GROUND	WATER OBSERV	/ATIONS	1	CABING	SAMPLER	CORE BARREL	1					
	Date	Depth	Stabilization Time	TYPE		Ĺ.B.		Casing Elevation (ft.)	Ι .				
				INSIDE DIAMETER	1	1.125"		PVC Elevation (ft.)	1				
	· · · · ·	†	1	HAMMER WEIGHT	<u> </u>	Direct Drive		Surface Elevation (ft.)					
	-			HAMMER FALL	<u> </u>			Date Slarted	 	3/14/01			
		 		NOTES:	Earthprobe sampli	na method	<u> </u>	Date Completed		3/14/01			
Depth	Sample Number	Sample Depths	Penetration/ Recovery	Blows per 6° penetration	Strata Changes		Soil Descriptions		Well As Built	Field Testing	Notes		
0	S-1	0-2	24/24			light Br Br., f. S.	AND, dry			0.0			
			-		1								
	S-2	2-4	24/24	Ì	f. SAND	Br., f.SAND, dry				0.0			
		i i	<u> </u>	Ì	1	ļ							
4	S-3	4 - 6	24/10		7	Br, f. SAND, trace	e f. gravel, dry			0.0			
				<u> </u>	┪					-			
	S-4	6-8	24/24		-	Br., f m. SAND,	, dry		ł	0.0			
		-	1		7				i				
8	S -5	8 - 10	24/24			Grey, Silt, trace f	SAND, moist			0.0			
		1		· · · · · · · · · · · · · · · · · · ·	SILT					-			
Ì	\$-6	10 - 12	24/24		┪	Grey, Silt, trace B	Br., f - m. SAND, w	et et	ļ	0.0			
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- Groundwater encountered at approximately 8' 10' feet below grade.
- 4. Soil boring only; no monitoring well installed.
- 5. Slight petroleum odor was detected

^{1.} Field testing values represent total volatile organic vapors (referenced to a benzene standard) measured in the headspace of sealed soil sample jars or Zip-lock ^{fM} bags. with a Photovac Model 2020 photoionization detector (PiD). Results reported in parts per million by volume (ppmv). Detection limit calibrated to 0.2 ppmv.

^{2.} Soil samples collected by using a truck-mounted probe drive system with a 24-inch LARGE BORE sampler fitted with a dedicated 1.125-inch inside diameter PETG liner.

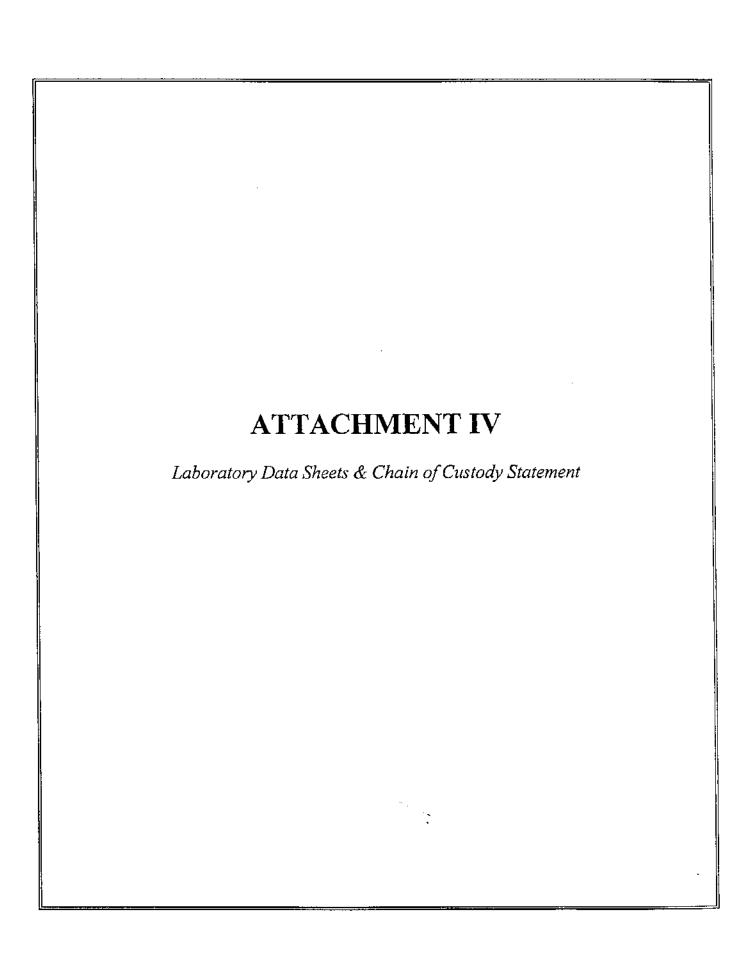


Environmental Compliance Services, Inc.

157 Old Guilford Road # 6, Brattleboro, Vermont 05301 (802) 257-1195 FAX (802) 257-1603

GROUNDWATER SAMPLING LOG

ent:	t	andle	١٤						Job Number:	40	311					Sheet 1 of 1
cation:	ী	andly ruttle	boro					•	Date:	<u>3/2</u>	8/01					
rsonnel:		S.M.	enar	کے					Weather Cond	litions:	S_{UY}	1ny_				1
Well ID	D	Point of Reference	Total Depth	Depth to	Depth to Water	Product Thickness	Water Height	Calculated Volume	Actual Volume Purged	Odors	ρH	Sp. Cond.	Temp	Dissolved Oxygen	Time	
	(în.)	(PVC/Rim)	(feet)	(feet)	(feet)	(feet)	(feet)	(Bailers)	(Bailers)	(Y/N)		(umhas/sec)	(°C)	(mg/L)	Sampled	Comments
16x-7	2	PUC	14.5		Y.12		<u> </u>	~19	12	N	·	<u> </u>	····-		10:43	
W-5	1	PUC	14.31		8.40		5.91	~ 48	10	1/					13:30	Silty
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Water level Indicator Slope																
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SPECTRUM ANALYTICAL, INC. Featuring

HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138 Rhode Island # 98 Maine # MA138 Florida # E87600 / 87562 New Hampshire # 2538 Connecticut # PH-0777 New York # 11393

ECS, Inc.
30 Harris Place
Brattleboro, VT 05301

Attn: Bruce Tease

Client Project Number: 40311



RECEIVED APR 1 9 2001

Wednesday, April 11, 2001

Report Status:

Final Report

☐ Re-issued Report

☐ Revised Report

Location: Friendly's - Brattleboro, VT

Laboratory ID	Client Sample ID	Analyses Requested
AC38332	MW-2	VOCs by GC/MS
		TPH by GC
		Separatory Funnel Extraction
AC38333	MW-5	VOCs by GC/MS
		TPH by GC
		Separatory Funnel Extraction
AC38334	MW-6	VOCs by GC/MS
		TPH by GC
		Separatory Funnel Extraction
AC38335	MW-7	VOCs by GC/MS
		TPH by GC
		Separatory Funnel Extraction
AC38336	Dup	VOCs by GC/MS
AC38337	Trip	VOCs by GC/MS



Featuring
HANIBAL TECHNOLOGY

Client Project Number: 40311

Location: Friendly's - Brattleboro, VT

Laboratory ID

Client Sample ID

Analyses Requested

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Hanibal (Tayeh

President/Laboratory Director

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Friendly's - Brattleboro, VT

Client: ECS

Lab ID No: AC38332 Client Id: MW-2 Client Project No: 40311 Submittal Date: 3/29/01 Collection Date: 3/28/01 Matrix: Ground Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds VOCs by GC/MS						
Acetone	Below det lim	ug/L	200	4/7/01	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Benzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Bromobenzene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Bromochloromethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
Bromodichloromethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Bromoform	Below det lim	ug/L	2.00	4 /7/01	СН	SW846 8260B
Bromomethane	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	100	4/7/01	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
tert-Butylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
Carbon disulfide	Below det lim	ug/L	10.0	4/7/01	CH	SW846 8260E
Carbon tetrachloride	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
Chlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
Chloroethane	Below dct lim	ug/L	4.00	4/7/01	СН	SW846 8260E
Chloroform	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
Chloromethane	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260E
2-Chlorotoluene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260I
4-Chlorotoluene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260F
Dibromochloromethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
1,2-Dibromoethane (EDB)	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
Dibromomethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
1,2-Dichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260F
1,3-Dichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260I
1,4-Dichlorobenzene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
Dichlorodifluoromethane	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260E
1,1-Dichloroethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260I
1,2-Dichloroethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260I
1,1-Dichloroethene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260I
cis-1,2-Dichloroethene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260
trans-1,2-Dichloroethene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260
1,2-Dichloropropane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 82601
1,3-Dichloropropane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 82601

Lab ID No: AC38332 Client Id: MW-2

Parameter	Results	Units	PQL	Start Date	Analyst	Method
2,2-Dichloropropane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Ethylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Hexachlorobutadiene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	200	4/7/01	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	40.0	4/7/01	CH	SW846 8260B
Methylene chloride	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Naphthalene	120	ug/L	2.00	4/7/01	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Styrene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,1,1,2-Tetrachioroethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Toluene	Below det lim	ug/L	2.00	4 /7/01	СН	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	2.00	4/7/01	Cfl	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2,4-Trimethylbenzene	2.7	ug/L	2.00	4/7/01	СH	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/L	4.00	4/7/01	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260B
o-Xylene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
4-Bromofluorobenzene (%SR)	102	ug/L	0.000	4/7/01	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/L	0.000	4/7/01	СН	SW846 8260B
Chlorobenzene-d5 (%SR)	104	ug/L	0.000	4/7/01	CH	SW846 8260B
TPH Preparation						
Separatory Funnel Extraction	Completed		٠.	4/5/01	NA	SW846 3510C
Petroleum Hydrocarbon Analysis TPH by GC						
Gasoline	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #2	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #4	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M

Lab ID No: AC38332 Client Id: MW-2

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Fuel Oil #6	*	mg/L	0.2	4/6/01	LR	SW846 8100M
Motor Oil	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Ligroin	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Aviation Fuel	Below det lim	${ m mg/L}$	0.2	4/6/01	LR	SW846 8100M
Unidentified	1.8	mg/L	0.2	4/6/01	LR	SW846 8100M
Other Oil	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Total Hydrocarbons (GC)	1.8	mg/L	0.2	4/6/01	LR	SW846 8100M
1-Chloro-octadecane (%SR)	74	mg/L		4/6/01	LR	SW846 8100M

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	100.0	4/7/01	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Benzene	1.1	ug/L	1.0	4/7/01	CH	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/7/01	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	50.0	4/7/01	СН	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/7/01	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/7/01	CH	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/7/01	СН	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/7/01	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/7/01	СН	SW846 8260B
1,1-Dichloroethanc	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,2-Dichloroethane	Below det lim	цg/L	1.0	4/7/01	СН	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/ĩ.	1.0	4/7/01	СН	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Ethylbenzene	4.1	ug/L	1.0	4/7/01	СН	SW846 8260B

Lab ID No: AC38333 Client Id: MW-5

Results	Units	PQL	Start Date	Analyst	Method
Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Below det lim	ug/L	100.0	4/7/01	СН	SW846 8260B
Below det 1im	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	20.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
47	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
1.1	ug/L	1.0	4/7/01	СН	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	СH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1.8	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Below det lim.	ug/L	2.0	4/7/01	СН	SW846 8260B
1.5	ug/L	2.0	4/7/01	CH	SW846 8260B
2.0	ug/L	1.0	4/7/0I	СН	SW846 8260B
101	ug/L		4/7/01	CH	SW846 8260B
97	ug/L		4/7/01	CH	SW846 8260B
95	ug/L		4/7/01	СН	SW846 8260B
Completed			4/5/01	NA	SW846 3510C
Data dist	#		A17103		D111017 0100
					SW846 8100M
	-				SW846 8100M
	_				SW846 8100M
					SW846 8100M
	-				SW846 8100M
					SW846 8100M
Below det lim	mg/L mg/L	0.2	4/6/01 4/6/01	LR LR	SW846 8100M SW846 8100M
	Below det lim Below det lim	Below det lim ug/L Capyl Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim ug/L Below det lim mg/L Below det lim mg/L Below det lim mg/L Below det lim mg/L Below det lim mg/L Below det lim mg/L Below det lim mg/L Below det lim mg/L Below det lim mg/L	Below det lim ug/L 1.0 Completed 1.5 Completed 1.0 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2 Below det lim mg/L 0.2	Below det lim ug/L 1.0 4/7/01 Completed 4/7/01 Below det lim ug/L 2.0 4/7/01 Completed 4/5/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01 Below det lim mg/L 0.2 4/6/01	Below det lim ug/L 1.0 4/7/01 CH Below det lim ug/L 2.0 4/7/01 CH Below det lim ug/L 2.0 4/7/01 CH Below det lim ug/L 2.0 4/7/01 CH Below det lim ug/L 2.0 4/7/01 CH Below det lim ug/L 2.0 4/7/01 CH Below det lim ug/L 2.0 4/7/01 CH Below det lim mg/L 0.2 4/6/01 LR Below det lim mg/L 0.2 4/6/01 LR Below det lim mg/L 0.2 4/6/01 LR Below det lim mg/L 0.2 4/6/01 LR Below det lim mg/L 0.2 4/6/01 LR Below det lim mg/L 0.2 4/6/01 LR

Lab ID No: AC38333 Client Id: MW-5

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Other Oil	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Total Hydrocarbons (GC)	4.4	mg/L	0.2	4/6/01	LR	SW846 8100M
1-Chloro-octadecane (%SR)	89	mg/L		4/6/01	LR	SW846 8100M

Lab ID No: AC38334 Client Id: MW-6

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS	5 .1. 1.11	-	1000	4/7 (0.4		*****
Acetone	Below det lim	ug/L	100.0	4/7/01	CH	SW846 8260E
Acrylonitrile	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260E
Benzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260E
Bromobenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260E
Bromochloromethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260F
Bromodichloromethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260F
Bromoform	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260F
Bromomethane	Below det lim	ug/L	2.0	4/7/01	CH	SW846 8260E
2-Butanone (MEK)	Below det lim	ug/L	50.0	4/7/01	CH	SW846 8260F
n-Butylbenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260F
sec-Butylbenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260E
tert-Butylbenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260F
Carbon disulfide	Below det lim	ug/L	5.0	4/7/01	CH	SW846 82601
Carbon tetrachloride	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260I
Chlorobenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260I
Chloroethane	Below det lim	ug/L	2.0	4/7/01	СH	SW846 8260F
Chloroform	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260I
Chloromethane	Below det lim	ug/L	2.0	4/7/01	СН	SW846 8260F
2-Chlorotoluene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260I
4-Chlorotoluene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 82601
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/7/01	СН	SW846 8260I
Dibromochloromethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260I
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260I
Dibromomethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260I
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260E
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/7/01	СН	SW846 82601
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 82601
1,3-Dichloropropane	Below det lim	ug/L ug/L	1.0	4/7/01	CH	SW846 8260
2,2-Dichloropropane	Below det lim	ug/L ug/L	1.0	4/7/01	CH	SW846 82601
1,1-Dichloropropene	Below det lim	ug/L ug/L	1.0	4/7/01	CH	SW846 8260
cis-1,3-Dichloropropene	Below det lim	ug/L ug/L	1.0	4/7/01	СН	SW846 8260
trans-1,3-Dichloropropene	Below det lim	ug/L ug/L	1.0	4/7/01	СН	SW846 8260
Ethylbenzene	Below det lim	ug/L ug/L	1.0	4/7/01	СН	SW846 82601

Lab ID No: AC38334 Client Id: MW-6

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	100.0	4/7/01	CH	SW846 8260B
Isopropyłbenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	20.0	4/7/01	CH	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Naphthalene	61	ug/L	1.0	4/7/01	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Toluene	3.6	ug/L	1.0	4/7/01	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
1,2,4-Trimethylbenzene	1.4	ug/L	1.0	4/7/01	СН	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/7/01	СН	SW846 8260B
Vinyl chloride	Below det lim	ug/L	2.0	4/7/01	СН	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/7/01	СН	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/7/01	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	101	ug/L		4/7/01	СН	SW846 8260B
1,4-Difluorobenzene (%SR)	101	ug/L		4/7/01	СН	SW846 8260B
Chlorobenzene-d5 (%SR)	102	ug/L		4/7/01	СН	SW846 8260B
TPH Preparation						
Separatory Funnel Extraction	Completed			4/5/01	NA	SW846 3510C
Petroleum Hydrocarbon Analysis TPH by GC						
Gasoline	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #2	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #4	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #6	*	mg/L	0.2	4/6/01	LR	SW846 8100M
Motor Oil	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Ligroin	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100N
Aviation Fuel	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Unidentified	4.1	mg/L	0.2	4/6/01	LR	SW846 8100M

Lab ID No: AC38334 Client Id: MW-6

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Other Oil	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Total Hydrocarbons (GC)	4.1	mg/L	0.2	4/6/01	LR	SW846 8100M
1-Chloro-octadecane (%SR)	63	mg/L		4/6/01	LR	SW846 8100M

Lab ID No: AC38335 Client Id: MW-7

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	200	4/7/01	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Benzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Bromobenzene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Bromochloromethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Bromoform	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Bromomethane	Below det lim	ug/L	4.00	4/7/01	ĊН	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	100	4/7/01	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/L	10.0	4/7/01	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	2.00	4/7/01	СH	SW846 8260B
Chlorobenzene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Chloroethane	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260B
Chloroform	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Chloromethane	Below det lim	ug/L	4.00	4/7/01	CH	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	4.00	4/7/01	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Dibromomethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
1,2-Dichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	4.00	4/7/01	СН	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
1,1-Dichloroethene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
cis-1,2-Dichloroethene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
2,2-Dichloropropane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
cis-1,3-Dichloropropene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260E
trans-1,3-Dichloropropene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260E
Ethylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B

Lab ID No: AC38335 Client Id: MW-7

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Hexachlorobutadiene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	200	4/7/01	CH	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	40.0	4/7/01	CH	SW846 8260B
Methylene chloride	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Naphthalene	170	ug/L	2.00	4/7/01	СН	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Styrene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det 1im	ug/L	2.00	4/7/01	СН	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
Toluene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
1,2,4-Trimethylbenzene	2.8	ug/L	2.00	4/7/01	СН	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	2.00	4/7/01	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/L	4.00	4/7/01	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	4.00	4/7/01	CH	SW846 8260B
o-Xylene	Below det lim	ug/L	2.00	4/7/01	СН	SW846 8260B
4-Bromofluorobenzene (%SR)	103	ug/L	0.000	4/7/01	СН	SW846 8260B
1,4-Difluorobenzene (%SR)	103	ug/L	0.000	4/7/01	СН	SW846 8260B
Chlorobenzene-d5 (%SR)	100	ug/L	0.000	4/7/01	СН	SW846 8260B
TPH Preparation						
Separatory Funnel Extraction	Completed			4/5/01	NA	SW846 3510C
Petroleum Hydrocarbon Analysis TPH by GC						
Gasoline	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #2	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #4	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Fuel Oil #6	*	mg/L	0.2	4/6/01	LR	SW846 8100M
Motor Oil	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Ligroin	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Aviation Fuel	Below det lim	mg/L	0.2	4/6/01	LR	SW846 8100M
Unidentified	.83	mg/L	0.2	4/6/01	LR	SW846 8100M

Lab ID No: AC38335 Client Id: MW-7

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Other Oil	Below det lim	${ m mg/L}$	0.2	4/6/01	LR	SW846 8100M
Total Hydrocarbons (GC)	.83	mg/L	0.2	4/6/01	LR	SW846 8100M
1-Chloro-octadecane (%SR)	66	mg/L		4/6/01	LR	SW846 8100M

Lab ID No: AC38336

Client Id: Dup

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS		_				
Acetone	Below det lim	ug/L	200	4/10/01	GW	SW846 8260B
Acrylonitrile	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Benzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Bromobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Bromochloromethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Bromoform	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Bromomethane	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	100	4/10/01	GW	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Carbon disulfide	Below det lim	ug/L	10.0	4/10/01	GW	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Chlorobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Chloroethane	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
Chloroform	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Chloromethane	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Dibromomethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L ug/L	2.00	4/10/01	GW	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Ethylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B

Lab ID No: AC38336 Client Id: Dup

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Parameter	Results	Units	PQL	Start Date	Analyst	Method
Hexachlorobutadiene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	200	4/10/01	GW	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	40.0	4/10/01	GW	SW846 8260B
Methylene chloride	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Naphthalene	110	ug/L	2.00	4/10/01	GW	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Styrene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Toluene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
1,2,4-Trimethylbenzene	3.0	ug/L	2.00	4/10/01	GW	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
Vinyl chloride	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	4.00	4/10/01	GW	SW846 8260B
o-Xylene	Below det lim	ug/L	2.00	4/10/01	GW	SW846 8260B
4-Bromofluorobenzene (%SR)	100	ug/L	0.000	4/10/01	GW	SW846 8260B
1,4-Difluorobenzene (%SR)	97	ug/L	0.000	4/10/01	GW	SW846 8260B
Chlorobenzene-d5 (%SR)	95	ug/L	0.000	4/10/01	GW	SW846 8260B

Lab ID No: AC38337 Client Id: Trip

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Volatile Organic Compounds						
VOCs by GC/MS						
Acetone	Below det lim	ug/L	100.0	4/9/01	CH	SW846 8260B
Acrylonitrile	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Benzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Bromobenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Bromochloromethane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Bromodichloromethane	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Bromoform	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Bromomethane	Below det lim	ug/L	2.0	4/9/01	CH	SW846 8260B
2-Butanone (MEK)	Below det lim	ug/L	50.0	4/9/01	CH	SW846 8260B
n-Butylbenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
sec-Butylbenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
tert-Butylbenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Carbon disulfide	Below det lim	ug/L	5.0	4/9/01	CH	SW846 8260B
Carbon tetrachloride	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Chlorobenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Chloroethane	Below det lim	ug/L	2.0	4/9/01	СН	SW846 8260B
Chloroform	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Chloromethane	Below det lim	ug/L	2.0	4/9/01	СН	SW846 8260B
2-Chlorotoluene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
4-Chlorotoluene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,2-Dibromo-3-chloropropane (DBCP)	Below det lim	ug/L	2.0	4/9/01	CH	SW846 8260B
Dibromochloromethane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,2-Dibromoethane (EDB)	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Dibromomethane	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
1,2-Dichlorobenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,3-Dichlorobenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,4-Dichlorobenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Dichlorodifluoromethane	Below det lim	ug/L	2.0	4/9/01	СН	SW846 8260B
1,1-Dichloroethane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,2-Dichloroethane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,1-Dichloroethene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
cis-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
trans-1,2-Dichloroethene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,2-Dichloropropane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,3-Dichloropropane	Below det lim	ug/L	1.0	4/9/01	CII	SW846 8260B
2,2-Dichloropropane	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
1,1-Dichloropropene	Below det lim	ug/L	0.1	4/9/01	CH	SW846 8260B
cis-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
trans-1,3-Dichloropropene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Ethylbenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B

Lab ID No: AC38337 Client Id: Trip

Collection Date: 3/28/01 Matrix: Dionized Water

Parameter	Results	Units	PQL	Start Date	Analyst	Method
Hexachlorobutadiene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
2-Hexanone (MBK)	Below det lim	ug/L	100.0	4/9/01	СН	SW846 8260B
Isopropylbenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
4-Isopropyltoluene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Methyl-tert-butyl ether (MTBE)	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
4-Methyl-2-pentanone (MIBK)	Below det lim	ug/L	20.0	4/9/01	СН	SW846 8260B
Methylene chloride	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Naphthalene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
n-Propylbenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Styrene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
1,1,1,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
1,1,2,2-Tetrachloroethane	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Tetrachloroethene (PCE)	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Toluene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
1,2,3-Trichlorobenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
1,2,4-Trichlorobenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,1,1-Trichloroethane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,1,2-Trichloroethane	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Trichloroethene (TCE)	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
Trichlorofluoromethane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,2,3-Trichloropropane	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,2,4-Trimethylbenzene	Below det lim	ug/L	1.0	4/9/01	СН	SW846 8260B
1,3,5-Trimethylbenzene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
Vinyl chloride	Below det lim	ug/L	2.0	4/9/01	CH	SW846 8260B
m,p-Xylenes	Below det lim	ug/L	2.0	4/9/01	СН	SW846 8260B
o-Xylene	Below det lim	ug/L	1.0	4/9/01	CH	SW846 8260B
4-Bromofluorobenzene (%SR)	88	ug/L		4/9/01	CH	SW846 8260B
1,4-Difluorobenzene (%SR)	100	ug/L		4/9/01	CH	SW846 8260B
Chlorobenzene-d5 (%SR)	94	ug/L		4/9/01	CH	SW846 8260B

Reviewed by:

Quality Service/Quality Assurance Depts.

Validated by:

President/Laboratory Director

4/11/01



Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel

Fuel Oil #4 - includes #4 fuel oil

Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil

Motor Oil - includes virgin and waste automobile oil

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha

Aviation Fuel - includes kerosene, Jet A and JP-4

Other Oil - includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.



Laboratory Report Supplement <u>References</u>

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
40 CFR 141	National Primary Drinking Water Regulations
40 CFR 143	National Secondary Drinking Water Regulations
40 CFR 160	Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Good Laboratory Practice Standards
APHA-AWWA-WPCF	Standard Methods for the Examination of Water and Wastewater. 19th edition, 1995
ASTM D 3328	Standard Methods for the Comparison of Waterborne Petroleum Oils by Gas Chromatography
EPA 540/G-87/003	Data Quality Objectives for Remediation Response Activities, Development Process
EPA 600/4-79-012	Quality Assurance Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-019	Handbook for Analytical Quality Control in Water and Wastewater Laboratories
EPA 600/4-79-020	Method for the Chemical Analysis of Water and Wastes
EPA 600/4-82-057	Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater
EPA 600/4-85/056	Choosing Cost-Effective QA/QC Programs for Chemical Analysis
EPA 600/4-88/039	Method for the Determination of Organic Compounds in Drinking Water
CT ETPH	Analysis of Extractable Total Petroleum Hydrocarbons (ETPH)
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MADEP VPH	Method for the Determination of Volatile Petroleum Hydrocarbons (VPH)
QAMS 004/80	Guidelines and Specifications for Preparing Quality Assurance Program Plans, USEPA Office of Monitoring System and Quality Assurance
GC-D-52-77	Oil Spill Identification System

Acronyms & Abbreviations

AA	Atomic Absorption	MS	Matrix Spike
ASTM	American Society for Testing and Materials	MSD	Matrix Spike Duplicate
BOD	Biological Oxygen Demand	NTU	Nephelometric Turbidity Units
°C	degree(s) Celsius	PAHs	Polynuclear Aromatic Hydrocarbons
COD	Chemical Oxygen Demand	PCBs	Polychlorinated Biphenyls
CMR	Code of Massachusetts Regulations	$_{ m PID}$	Photo Ionization Detector
DEP	Department of Environmental Protection	PQL	Practical Quantitation Limit
DI	De-ionized	R	Recovery (%R: Percent Recovery)
DO	Dissolved Oxygen	RSD	Relative Standard Deviation
EPA	Environmental Protection Agency	SM	Standard Method
EPH	Extractable Petroleum Hydrocarbons	SR	Surrogate Recovery (%SR)
FID	Flame Ionization Detector	SW	Solid Waste
GC	Gas Chromatograph	THM	Trihalomethane(s)
GC / MS	Gas Chromatograph / Mass Spectrometer	TOC	Total Organic Carbon
ICP	Inductively Coupled Plasma	TOX	Total Organic Halogen
Id	Identification	TPH	Total Petroleum Hydrocarbons
MCL	Maximum Contaminant Level	VOC	Volatile Organic Compound
MDL	Minimum Detection Limit	VPH	Volatile Petroleum Hydrocarbons



CHAIN OF CUSTODY RECORD

Special Handling Standard TAT - 7 to 10 business days

Rush TAT - Date Needed:

All TATs subject to laboratory approval.

- · Min. 24-hour notification needed for rushes.
- · All samples are disposed of after 60 days

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Report To: FCS-VT	lnv	nvoice To: ECS - Appurum			_ [Project No.: 40311 Site Name: Friendly's											
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SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Massachusetts Certification # M-MA138 Rhode Island # 98 Maine # MA138 Florida # E87600 / 87562 New Hampshire # 2538 Connecticut # PH-0777 New York # 11393

ECS, Inc. 30 Harris Place Brattleboro, VT 05301

Attn: David Balk

Client Project Number: 40311

SAN BACCOROUND

RECEIVED APR - 2 2001

Monday, March 26, 2001

Report Status:

Final Report

Re-issued Report

Revised Report

Location: Friendly's - Brattleboro, VT

<u>Laboratory ID</u>	Client Sample ID	Analyses Requested
AC35813	SB5 6-8ft	TPH by GC
		Ultrasonic Extraction
		% Solids
AC35814	SB7 6-8ft	TPH by GC
		Ultrasonic Extraction
		% Solids
AC35815	SB8 6-8rì	TPH by GC
		Ultrasonic Extraction
		% Solids

I attest that all information contained within this report has been reviewed for accuracy and checked against all quality control requirements outlined in each applicable method and meet the requirements of NELAC including any data obtained from a subcontract laboratory. Please note that all solid matrix sample results are calculated on a dry weight basis unless otherwise specified.

This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Hanibal C\Tayeh

President/Laboratory Director

ENVIRONMENTAL ANALYSES

SPECTRUM ANALYTICAL, INC.

Laboratory Report

Location: Friendly's - Brattleboro, VT

Client: ECS

Client Project No: 40311 Submittal Date: 3/15/01

Lab ID No: AC35813 Client	Id: SB5 6-8ft		Collec	tion Date: 3/14/01	Matrix	: Soil
Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			3/20/01	RTW	SW846 3550B
Petroleum Hydrocarbon Analysis TPH by GC						
Gasoline	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Fuel Oil #2	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Fuel Oil #4	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Fuel Oil #6	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Motor Oil	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Ligroin	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Aviation Fuel	Below det lim	mg/Kg	600	3/21/01	LR	SW846 8100M
Unidentified	11,000	mg/Kg	600	3/21/01	LR	SW846 8100M
Other Oil	*	mg/Kg	600	3/21/01	LR	SW846 8100M
Total Hydrocarbons (GC)	11,000	mg/Kg	600	3/21/01	LR	SW846 8100M
1-Chloro-octadecane (%SR)	61	mg/Kg	0.	3/21/01	LR	SW846 8100M
% Solids	85.0	%		3/20/01	wb	SM2540 B Mod

Lab ID No: AC35814	Client Id: SB7 6-8ft		Collec	ction Date: 3/14/01	Matrix	: Soil
Parameter	Results	Units	PQL	Start Date	Analyst	Method
TPH Preparation						
Ultrasonic Extraction	Completed			3/20/01	RTW	SW846 3550B
Petroleum Hydrocarbon Ar	nalysis					
TPH by GC						
Gasoline	Below det li	m mg/Kg	600	3/23/01	LR	SW846 8100M
Fuel Oil #2	Below det li	m mg/Kg	600	3/23/01	LR	SW846 8100M
Fuel Oil #4	Below det li	m mg/Kg	600	3/23/01	LR	SW846 8100M
Fuel Oil #6	*	mg/Kg	600	3/23/01	LR	SW846 8100M
Motor Oil	Below det li	m mg/Kg	600	3/23/01	LR	SW846 8100M
Ligroin	Below det li	m mg/K.g	600	3/23/01	LR	SW846 8100M
Aviation Fuel	Below det li	m mg/Kg	600	3/23/01	LR	SW846 8100M
Unidentified	7,600	mg/Kg	600	3/23/01	LR	SW846 8100M
Other Oil	Below det li	m mg/Kg	600	3/23/01	LR	SW846 8100M
Total Hydrocarbons (GC)	7,600	mg/Kg	600	3/23/01	LR	SW846 8100M
1-Chloro-octadecane (%SR)	77	mg/Kg	0.	3/23/01	LR	SW846 8100M
% Solids	88.6	%		3/20/01	wb	SM2540 B Mod
Lab ID No: AC35815	Client Id: SB8 6-8ft		Collec	tion Date: 3/14/01	Matrix:	Soil
Lab ID No: AC35815 Parameter	Client Id: SB8 6-8ft Results	Units	Collect PQL	ction Date: 3/14/01 Start Date	Matrix: Analyst	Soil Method
		Units				
Parameter		Units				
Parameter TPH Preparation	Results Completed	Units		Start Date	Analyst	Method
Parameter TPH Preparation Ultrasonic Extraction	Results Completed	Units		Start Date	Analyst	Method
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC Gasoline	Results Completed			Start Date	Analyst	Method
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC	Results Completed allysis	m mg/Kg	PQL	Start Date 3/20/01	Analyst RTW	Method SW846 3550B
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC Gasoline Fuel Oil #2 Fuel Oil #4	Results Completed halysis Below det li	m mg/Kg m mg/Kg	PQL 70	3/20/01 3/22/01	Analyst RTW LR	Method SW846 3550B SW846 8100M
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC Gasoline Fuel Oil #2	Results Completed allysis Below det li Below det li	m mg/Kg m mg/Kg m mg/Kg	PQL 70 70	3/20/01 3/22/01 3/22/01	Analyst RTW LR LR	Method SW846 3550B SW846 8100M SW846 8100M
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC Gasoline Fuel Oil #2 Fuel Oil #4	Results Completed allysis Below det li Below det li Below det li	m mg/Kg m mg/Kg m mg/Kg m mg/Kg	PQL 70 70 70	3/20/01 3/22/01 3/22/01 3/22/01	Analyst RTW LR LR LR	Method SW846 3550B SW846 8100M SW846 8100M SW846 8100M
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC Gasoline Fuel Oil #2 Fuel Oil #4 Fuel Oil #6	Results Completed allysis Below det li Below det li Below det li Below det li	m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg	PQL 70 70 70 70 70	3/20/01 3/22/01 3/22/01 3/22/01 3/22/01	Analyst RTW LR LR LR LR LR	Method SW846 3550B SW846 8100M SW846 8100M SW846 8100M SW846 8100M
Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon An TPH by GC Gasoline Fuel Oil #2 Fuel Oil #4 Fuel Oil #6 Motor Oil	Results Completed allysis Below det li Below det li Below det li Below det li Below det li	m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg	70 70 70 70 70 70	3/20/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01	Analyst RTW LR LR LR LR LR	Method SW846 3550B SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M
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Parameter TPH Preparation Ultrasonic Extraction Petroleum Hydrocarbon And TPH by GC Gasoline Fuel Oil #2 Fuel Oil #4 Fuel Oil #6 Motor Oil Ligroin Aviation Fuel Unidentified Other Oil Total Hydrocarbons (GC)	Results Completed salysis Below det li Below det li Below det li Below det li Below det li Below det li Below det li Below det li Below det li Below det li 300 300	m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg m mg/Kg	PQL 70 70 70 70 70 70 70 70 70 70 70	3/20/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01 3/22/01	Analyst RTW LR LR LR LR LR LR LR LR LR	Method SW846 3550B SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M SW846 8100M

Reviewed by:	Validated by:	
		2/2//01
Quality Service/Quality Assurance Depts	Precident/I shoratory Director	3/26/01



Laboratory Report Supplement <u>References</u>

SW 846	Test Methods for Evaluating Solid Waste. Third edition, 1998
40 CFR 136	Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act
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MDL	Maximum Contaminant Level Minimum Detection Limit	VOC VPH	



Laboratory Report Supplement

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel

Fuel Oil #4 – includes #4 fuel oil

Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil

Motor Oil - includes virgin and waste automobile oil

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha

Aviation Fuel - includes kerosene, Jet A and JP-4

Other Oil - includes lubricating and cutting oil, and silicon oil

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in our library.

After identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample. A * in the results column indicates the primary petroleum fingerprint calibration used to quantify unidentified samples. A ** in the results column indicates the secondary petroleum fingerprint calibration used to quantify unidentified samples. A *** in the results column indicates the tertiary petroleum fingerprint calibration used to quantify unidentified samples.



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MDI.	Minimum Detection Limit	VOC VPH	Volatile Organic Compound Volatile Petroleum Hydrocarbons



CHAIN OF CUSTODY RECORD

Special Handling:

Standard TAT - 7 to 10 business days

Rush TAT - Date Needed:

- · All TATs subject to laboratory approval.
- · Min. 24-hour notification needed for rushes.
- All samples are disposed of after 60 days

MANUAL TECHNOLOGY			Page <u>l</u> of <u>l</u>									unless otherwise instructed.										
Report To: ECS -VT Invoice				ce To: ECS-Aguilan							_	Project No.: _90311										
				J								_	Site Name: Friendly's									
												-	Location: Brattleboro Stat							State: <u>V</u>		
Project Mgr.	B. Tease		P.O. N	No.: RQN: <u>3737</u>							-	Sampler(s): S. Monar d										
1=Na ₂ S2O ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Asco 7=CH ₃ OH 8= NaHSO ₄ 9= <u>4°C</u> 10=				corbic Acid				Containers;				Analyses:							Notes:			
DW=Drinking Water GW=Groundwater WW=Wastewater O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air X1=X2=X3=						e	/ials	of Amber Glass	of Clear Glass			ma	hr		,						•	
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Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	Preservative	# of VOA Vials	# of A	# of C	# of Plastic		1PH SICOM	OnWelaht	0	i							į
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